Excalibur® NSF Commercial Food Dehydrator

1 Zone - User Manual

6083 Power Inn Road
Sacramento, CA 95824
(916) 381-4254 Fax (916) 381-2566
www.drying123.com

Excalibur®… Leaders in the Field of Commercial Drying Technology

IMPORTANT!

The Excalibur® Commercial Dehydrator is an innovative, state of the art dehydration unit equipped with a powerful Computer Controller.

Please take time to read this ***User Manual*** before you attempt to set the computer profiles. There are several steps to setting the sophisticated controls and operating this unit.

CAUTION or WARNING

Failure to Follow the instructions EXACTLY as outlined in the User Manual will cause your Unit to not work properly or will cause your unit to not work at all.

Theory of Operation

Unlike an oven which maintains heat at a constant temperature, the Excalibur® Commercial Dehydrator is a state-of-the-art dehydration unit, which utilizes the innovative technology of temperature cycling.

After you set the time/temperature profile on the computer controller and when a profile is started, the fans begin to run and the heating elements are switched on. The fans will continue to run throughout the whole drying process until the profile is stopped.

The ***"AIR"*** temperature rises until the set point (temperature) you entered in the profile is reached. When the set point is reached, the heating elements will switch off. The ***"AIR"*** temperature will continue to rise a few degrees due to residual heat in the unit. **This is normal** and there is minimal effect on the internal food temperature by this rise in ***"AIR"*** temperature.

The heating elements remain off until the "AIR" temperature drops several degrees below the set point, at which time, the heating element will turn back on. The temperature will again begin to rise to the set point of the profile. This ***cycling is called Hyperwave*** and is an important part of the drying process.

It is important to remember, the temperature shown on the controller is the temperature of the air at the back of the unit. A temperature sensor can be used to check the internal temperature of the food/product being dried if internal temperature is of concern.

CAUTION or WARNING

All meat and poultry products should be heated to a minimum temperature of 160°-165° F prior to the dehydration process to kill any bacteria that may be present.

Warranty Info
Commercial Dehydrators

1 Year Limited Warranty

Excalibur® Products warrants to the ORIGINAL RETAIL PURCHASER of this product that if it is purchased through an AUTHORIZED EXCALIBUR RETAILER, or Directly from the Factory and operated in accordance with the printed instruction accompanying it, then for a period of 1 year from the date of purchase, the product shall be free from defects in material and workmanship.

The Excalibur® Digital Controller is backed by a one year warranty to the first purchaser for use, providing that the units have not been misapplied. This warranty does not apply to damage resulting from transportation, alteration, misuse or abuse.

Products sold through online auctions, by unauthorized dealers or discount retailers are not eligible for warranty services from Excalibur. To obtain warranty service an original or copy of the sales receipt from the original authorized retailer is required.
THEREFORE, YOU SHOULD RETAIN YOUR SALES SLIP OR INVOICE.

If your commercial Dehydrator needs warranty service, please contact our Technical Support Department. In most cases, technical problems can be corrected over the phone. Tech support can be reached at one of the following numbers: Tel 916-381-4254; Fax 916-381-4256

Terms and Limitations

The company will repair (or at its discretion, replace) the defective parts free of charge if in the judgment of the company, it has been proved to be defective as to seller's labor and material, within the warranty period.

New or rebuilt replacements for factory defective parts will be supplied for ninety-days from date of purchase. This warranty does not cover the cost of installing the parts. Replacement parts are warranted for the remaining period of the original warranty.

Limitations

The warranty is void if the product is used for any purpose other than which it is designed and has not been subjected to abuse, negligence, accident, alteration, or failure to follow operating instructions or the product has been exposed to abnormal or extreme conditions. The product must not have been previously altered, repaired, or serviced by anyone other than factory service personnel. The serial number must not have been altered or removed. The product must not have been subjected to accident in transit or while in the customer's possession, misused, or operated contrary to the instructions contained in the instructions manual. This includes failure caused by neglect of reasonable and necessary maintenance, improper line voltage and acts of God. This warranty is not transferable.

Except to the extent prohibited by applicable law, no other warranties whether expressed or implied, including warranty merchantability and fitness for a particular purpose shall apply to this product. Under no circumstances shall Excalibur Products be liable for consequential damaged sustained in connection with said product and Excalibur Products neither assumes nor authorizes any representative or other person to assume for it any obligation or liability other than such as it expressly set forth herein. Any applicable implied warranties are also limited to ninety-day period of the limited warranty.

This warranty is subject to the Laws of the State of California and covers only the product and its specific parts, not the food or other products processed in it.

Operation of the Unit

The unit is equipped with a computer controller.

Programming

Programming the controller is a systematic procedure. The illustrated programming procedures on pages 4-7 are designed to direct the programmer to the next screen once a step is completed.

If, at any time, the step(s) listed in the programming instructions do not coincide with the illustrated display screen(s), return to the Main Menu Screen by pressing the “X” on the Home Page Screen. Or, for further assistance call (954) 202-7419 ext. 417.

Note: Temperature and time values listed in the illustrated programming procedures on pages 4-7 are for display purposes only. The values may or may not match the values listed on the actual controller.

Programming the Controller

Step 1: Load product into zone

Main Menu Screen

Step 2: Turn Power Switch to the ON Position

- After several seconds the Main Menu Screen appears.

Step 3: Program the zone by pressing one of the OFF buttons from the Main Menu Screen

Home Page Screen

- Press up or down icon on the Home Page Screen to set time and temperature.

- Press check mark icon when finished.

Step 4: Running the Program

Add/Start Screen

- There are two choices:

OR

- Press the

icon to begin running a **“Single Cycle”** time and temperature. The screen will return to the Main Menu to display the program.

OR

To add a **“Second Cycle”** time and temperature:

- Press the plus icon to program a **“Second Cycle”** time and temperature. Repeat the programming procedures outlined in Step 3.

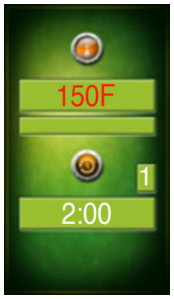
- Press the

icon when finished programming the “Second Cycle”.

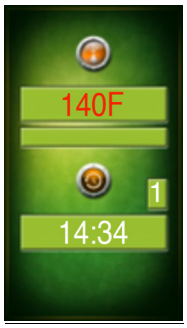
The program is now running a “First and Second Cycle” time and temperature.

NOTE:

- When a Second-Cycle time and temperature is running, a “1” appears in the furthest box to the right. The 1 indicates that the program is running in its first cycle. When the first cycle is complete, the number will change from 1 to 2.
- When a Single-Cycle time and temperature is running, the box will display an “S”.
- If a program is not entered, the box will display an “*”.



Step 5: Stop running or cancel a current cycle (example)



- From the Main Menu screen, press the

temperature icon or

time icon.

- Choose the stop icon to cancel the current cycle.

  Note: If no choice is made within 5 seconds, the screen will revert to the Main Menu with no changes.

Saving and Naming a Program

Step 1: Follow Steps 3-4 in the previous programming procedures

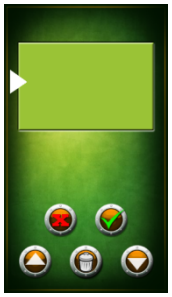
- After all cycle times and temperatures are set, press the diskette icon from the Start Screen.

Step 2: Type the name of your profile on the keyboard screen.

- Press the check mark icon when profile is complete

- Press the file icon

- The profile named will be saved on the screen as indicated by the arrow. Use the arrow icons to select your programmed profile.



- To initiate the selected profile, and begin running the program, press the check icon.

- To delete a profile, press the recycle icon